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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS	3	MAR 16	CASREACT coverage extended
NEWS	4	MAR 20	MARPAT now updated daily
NEWS	5	MAR 22	LWPI reloaded
NEWS	6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	10	APR 30	CA/CAPLUS enhanced with 1870-1889 U.S. patent records
NEWS	11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	12	MAY 01	New CAS web site launched
NEWS	13	MAY 08	CA/CAPLUS Indian patent publication number format defined
NEWS	14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	17	MAY 21	CA/CAPLUS enhanced with additional kind codes for German patents
NEWS	18	MAY 22	CA/CAPLUS enhanced with IPC reclassification in Japanese patents
NEWS	19	JUN 27	CA/CAPLUS enhanced with pre-1967 CAS Registry Numbers
NEWS	20	JUN 29	STN Viewer now available
NEWS	21	JUN 29	STN Express, Version 8.2, now available
NEWS	22	JUL 02	LEMBASE coverage updated
NEWS	23	JUL 02	LMEDLINE coverage updated
NEWS	24	JUL 02	SCISEARCH enhanced with complete author names
NEWS	25	JUL 02	CHEMCATS accession numbers revised
NEWS	26	JUL 02	CA/CAPLUS enhanced with utility model patents from China
NEWS	27	JUL 16	CAPLUS enhanced with French and German abstracts
NEWS	28	JUL 18	CA/CAPLUS patent coverage enhanced
NEWS	29	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS EXPRESS	29	JUNE 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS LOGIN			Welcome Banner and News Items
NEWS IPC8			For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 17:03:50 ON 27 JUL 2007

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 17:04:05 ON 27 JUL 2007

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 JUL 2007 HIGHEST RN 943513-14-2

DICTIONARY FILE UPDATES: 26 JUL 2007 HIGHEST RN 943513-14-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

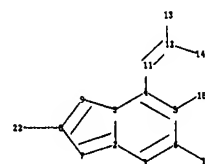
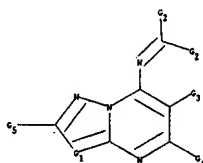
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10589496\10589496a.str



chain nodes :

11 12 13 14 18 19 22

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

4-11 5-18 6-19 8-22 11-12 12-13 12-14

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-11 5-6 5-18 6-19 7-8 8-9 8-22 11-12
12-13 12-14

G1:C,N

G2:C,O,S,N,Ak,Cy

G3:C,Cy,Ak

G4:CN,X,C,S,N,Ak,Cb,O

G5:CN,NH₂,NO₂,Ak,C,H,N,X,Cb

Match level :

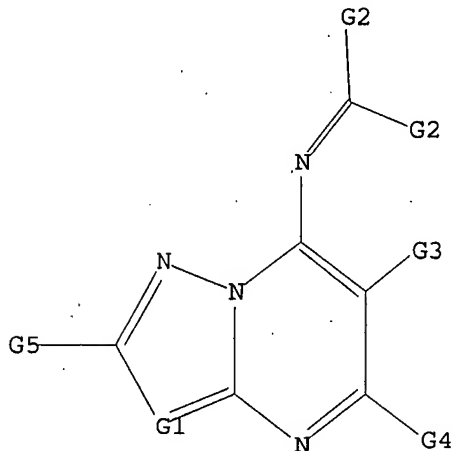
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
12:CLASS 13:CLASS 14:CLASS 18:CLASS 19:CLASS 22:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C,N

G2 C,O,S,N,Ak,Cy

G3 C,Cy,Ak

G4 CN,X,C,S,N,Ak,Cb,O

G5 CN,NH2,NO2,Ak,C,H,N,X,Cb

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 17:05:14 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 914 TO ITERATE

100.0% PROCESSED 914 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

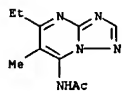
PROJECTED ITERATIONS: 16467 TO 20093

PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> d scan

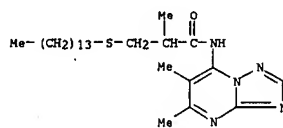
L2 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN 5-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl- (7CI)
 MF C10 H13 N5 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Propanamide, N-(5,6-dimethyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)-2-methyl-3-(tetradecylthio)- (9CI)
 MF C25 H43 N5 O S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> s l1 sss full
FULL SEARCH INITIATED 17:06:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 18655 TO ITERATE

100.0% PROCESSED 18655 ITERATIONS 12 ANSWERS
SEARCH TIME: 00.00.01

L3 12 SEA SSS. FUL L1

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	173.45	173.66

FILE 'CAPLUS' ENTERED AT 17:06:12 ON 27 JUL 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 27 Jul 2007 VOL 147 ISS 6
FILE LAST UPDATED: 26 Jul 2007 (20070726/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

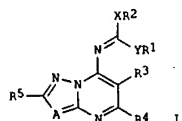
<http://www.cas.org/infopolicy.html>

=> s l3
L4 10 L3

=> d l4 1-10 ibib abs hitstr

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 2005:962261 CAPLUS
 DOCUMENT NUMBER: 143:266948
 TITLE: Preparation of azolopyrimidines as agrochemical fungicides.
 INVENTOR(S): Schwoegler, Anja; Gwehr, Markus; Mueller, Bernd; Grote, Thomas; Grammenos, Vassilios; Tormo i Blasco, Jordi; Rheinheimer, Joachim; Blattner, Carsten; Schaefer, Peter; Schieweck, Frank; Wagner, Oliver; Stierl, Reinhard; Schoefl, Ulrich; Strathmann, Siegfried; Scherer, Maria
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 96 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

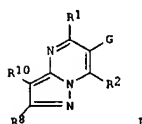
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080396	A2	20050901	WO 2005-EP1965	20050224
WO 2005080396	A3	20051124		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZH, ZW, ZM			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZH, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1720879	A2	20061115	EP 2005-715521	20050224
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
PRIORITY APPLN. INFO.:			DE 2004-102004009178A	20040225
			WO 2005-EP1965	W 20050224
OTHER SOURCE(S):		MARPAT 143:266948		
GI				



AB Title compds. [1: A = N, CR6; X, Y = bond, O, S, NR7; R1, R2 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, Ph, phenylalkyl, naphthyl, naphthylalkyl, (aromatic) heterocyclyl, heterocyclylalkyl, etc.; YR1, XR2 = H, cyano, NO2, halo, atoms to form (substituted) (heterocyclic) 5-7 membered rings, etc.; R3 = (substituted) alkyl, alkenyl, alkydienyl, alkynyl, cycloalkyl, cycloalkenyl, bicycloalkyl, Ph, phenylalkyl, naphthyl, (aromatic) heterocyclyl,

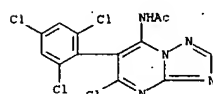
L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 2002:391719 CAPLUS
 DOCUMENT NUMBER: 136:401776
 TITLE: Preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compounds such as pyrazolopyrimidines
 INVENTOR(S): Kato, Fuminori; Kimura, Hirohiko; Omatsu, Masato; Yamamoto, Kazuhiro; Miyamoto, Ryuji
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
 SOURCE: PCT Int. Appl., 102 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040485	A1	20020523	WO 2001-JP10061	20011116
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZH			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZH, ZW, AT, BE, CH, CY, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2002212076	A	20020731	JP 2001-346339	20011112
CA 2429067	A1	20020523	CA 2001-2429067	20011116
AU 200215223	A	20020527	AU 2002-15223	20011116
EP 1334973	A1	20030813	EP 2001-993816	20011116
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
IN 2003KN00552	A	20050311	IN 2003-KN552	20030430
US 2004043998	A1	20040304	US 2003-416164	20030515
US 7067520	B2	20060627		
PRIORITY APPLN. INFO.:			JP 2000-351764	A 20001117
			WO 2001-JP10061	W 20011116
OTHER SOURCE(S):		CASREACT 136:401776; MARPAT 136:401776		
GI				

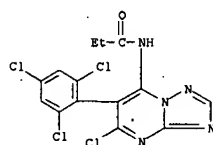


AB The title compds. [G is CN, NO2, etc.; R1 is halogeno, etc.; R2 is halogeno, optionally substituted amino, etc.; and R8 and R10 are each independently hydrogen, halogeno, or alkyl] are prepared Processes for preparing 1 are disclosed. Compds. of this invention at 50 mg/kg orally gave

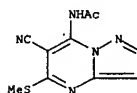
L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 heterocyclylalkyl, etc.; R4 = halo, cyano, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, etc.; R5 = H, cyano, NO2, NH2, CH2NH2, halo, haloalkyl, alkyl, alkenyl, etc.; were prepd. Thus, a -8- mixt. of POC13 and DMF was treated with 7-amino-5-chloro-6-(2,4,6-trifluorophenyl)triazolo[1,5-a]pyrimidine hydrochloride in DMF and Et3N to give 66% 1 (YR1 = NMe2; XR2, R5 = H; R3 = 2,4,6-trifluorophenyl; R4 = Cl). The latter at 250 ppm reduced incidence of Alternaria solani on tomatoes to <1%, vs. 100% for untreated controls.
 IT 863604-57-3P 863604-58-4P
 RL: AGK (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of azolopyrimidines as agrochem. fungicides)
 RN 863604-57-3 CAPLUS
 CN Acetamide, N-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 863604-58-4 CAPLUS
 CN Propanamide, N-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 statistically significant decreases of blood sugar in diabetic mice.
 IT 429694-71-3P
 RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compds. or their salts)
 RN 429694-71-3 CAPLUS
 CN Acetamide, N-(6-cyano-5-(methylthio)pyrazolo[1,5-a]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)

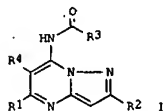


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:650390 CAPLUS
 DOCUMENT NUMBER: 131:271882
 TITLE: Preparation of pyrazolo[1,5-a]pyrimidines as nitrogen monoxide synthase inhibitors
 INVENTOR(S): Koji, Yasuo; Okamura, Takashi; Hashimoto, Kinji; Kondo, Mitsuyoshi; Shibutani, Naotaka
 PATENT ASSIGNEE(S): Ohtsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11279178	A	19991012	JP 1999-18861	19990127
PRIORITY APPL. INFO.:			JP 1998-17068	A 19980129
OTHER SOURCE(S):		MARPAT 131:271882		

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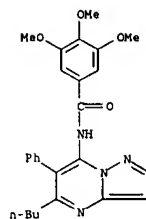


AB Title compds. [1; R1 = CH3(CH2)3, CF3CH2CH2, FCH2CH2, (4-FC6H4)2C:CHCH2, CF3CH2CH2CH2, OPr-n, OEt, C6H5(CH2)3, C6H5CH2; R2 = H, 2-pyrazinyl; R3 = 4-MeSC6H4, 3,4,5-(MeO)3C6H2, 2,4-(Cl)2C6H3, 4-PhSO2C6H4, 2-MeSO2C6H4, 4-MeSO2C6H4, 4-PhSO2C6H4, 2-MeSO2C6H4, 4-MeSO2C6H4, 2-PhCONHC6H4, 2-AcNHOC6H4, 2-PhOC6H4, 4-PhSC6H4, 2-MeSC6H4; R4 = H, C6H5, 2,3-(Cl)2C6H3] are prepared as nitrogen monoxide synthase inhibitors effective as pain killer and treatment or prevention of septicemia, endotoxin shock, chronic arthrorheumatism (no data). Thus, the title compound 1 (R1 = C6H5CH2; R2 = H; R3 = 3,4,5-(MeO)3C6H2; R4 = H) was prepared

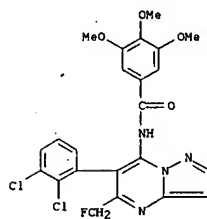
IT 245095-93-6P 245096-78-0P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyrazolo[1,5-a]pyrimidines as nitrogen monoxide synthase inhibitors)

RN 245095-93-6 CAPLUS
 CN Benzamide, N-(5-butyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



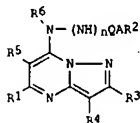
RN 245096-78-0 CAPLUS
 CN Benzamide, N-[6-(2,3-dichlorophenyl)-5-(fluoromethyl)pyrazolo[1,5-a]pyrimidin-7-yl]-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1998:246630 CAPLUS
 DOCUMENT NUMBER: 128:248613
 TITLE: Adenosine reinforcement agents
 INVENTOR(S): Moritoki, Hideki; Iwamoto, Takeshi; Yasuda, Tsuneco
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10101672	A	19980421	JP 1997-208772	19970804
PRIORITY APPL. INFO.:			JP 1996-207171	A 19960806
OTHER SOURCE(S):		MARPAT 128:248613		

GI

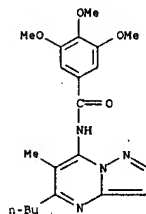


AB The title compds. [1; R1 = H, lower alkoxy or alkylthio, oxo, etc.; R2 = naphthyl, cycloalkyl, (un)substituted phenoxy, etc.; R3 = H, Ph, lower alkyl; R4 = H, lower alkyl, halo, aralkyl, etc.; R5 = H, lower alkyl; R6 = H, lower alkyl, (un)substituted benzoyl, etc.; Q = CO, SO2; A = single bond, lower alkylene or alkenylene; n = 0, 1] are presented as adenosine reinforcement agents. 1, possessing adenosine reinforcement activity, are useful for prevention and treatment of heart attack, myocardial and brain infarction. Ten compds. of 1 were tested and showed excellent adenosine reinforcement activity. Formulation containing 1 were also prepared

IT 174859-41-7
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (adenosine reinforcement agents)

RN 174859-41-7 CAPLUS
 CN Benzamide, N-(5-butyl-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

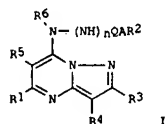
L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 1998:246629 CAPLUS
DOCUMENT NUMBER: 128:248612
TITLE: Nitrogen monooxide synthase inhibitors
INVENTOR(S): Moritoki, Hideki; Iwamoto, Takeshi; Yasuda, Tsuneko
PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JQXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10101671	A	19980421	JP 1997-207867	19970801
PRIORITY APPLN. INFO.: OTHER SOURCE(S): GI	MARPAT 128:248612		JP 1996-209465	A 19960808



AB The title compds. (I; R1 = H, lower alkoxy or alkylthio, oxo, etc.; R2 = naphthyl, cycloalkyl, (un)substituted phenoxy, etc.; R3 = H, Ph, lower alkyl; R4 = H, lower alkyl, halo, aralkyl, etc.; R5 = H, lower alkyl; R6 = H, lower alkyl, (un)substituted benzoyl, etc.; Q = CO, SO2; A = single bond, lower alkylene or alkenylene; n = 0, 1) are presented as NO synthase inhibitors. I are useful for prevention and treatment of septicemia. 14 Compds. of I were tested and showed excellent NO synthase inhibitory activity. Formulation containing I were also prepared

IT 174859-41-7
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pyrazolopyrimidine derivs. as nitrogen monooxide synthase inhibitors)

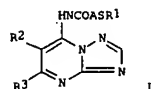
RN 174859-41-7 CAPLUS

CN Benzamide, N-(5-butyl-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 1997:465087 CAPLUS
DOCUMENT NUMBER: 127:81462
TITLE: Preparation of triazolo[1,5-a]pyrimidine derivatives as ACAT inhibitors
INVENTOR(S): Sato, Masakazu; Mannaka, Akira; Takahashi, Keiko; Tomizawa, Kazuyuki
PATENT ASSIGNEE(S): Taisho Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JQXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09169763	A	19970630	JP 1995-333247	19951221
JP 3716472	B2	20051116		
PRIORITY APPLN. INFO.: OTHER SOURCE(S): GI	MARPAT 127:81462		JP 1995-333247	19951221



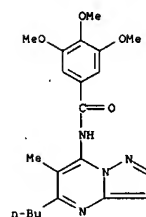
AB The title compds. (I; X = ASR1; A = Cl-4 alkylene; R1 = Cl-20 alkyl; R2 = H, Cl-4 alkyl; R3 = Me, morpholino) are prepared I, possessing Acyl-CoA Cholesterolacyltransferase (ACAT) inhibitory activity, are useful as lipid lowering agents and arteriosclerosis remedies. Thus, Me(CH2)13SH was treated with NaH and then reacted with I (X = CH2Br, R2 = Me, R3 = morpholino) (preparation given) to give the title compound I (X = CH2Br, R2 = Me, R3 = morpholino), which showed IC50 of 6.05 X 10⁻⁶ M against ACAT when tested with rabbits.

IT 191655-89-7P 191655-90-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of triazolo[1,5-a]pyrimidine derivs. as ACAT inhibitors)

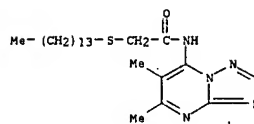
RN 191655-89-7 CAPLUS

CN Acetamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-(tetradecylthio)- (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

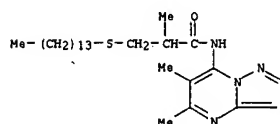


L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 191655-90-0 CAPLUS

CN Propanamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl-3-(tetradecylthio)- (9CI) (CA INDEX NAME)

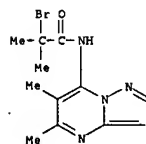


IT 191655-98-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of triazolo[1,5-a]pyrimidine derivs. as ACAT inhibitors)

RN 191655-98-8 CAPLUS

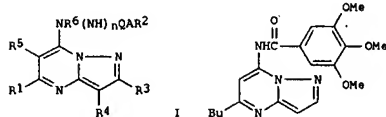
CN Propanamide, 2-bromo-N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1996:196727 CAPLUS
DOCUMENT NUMBER: 124:261026
TITLE: Preparation and formulation of pyrazolopyrimidine derivatives as analgesics
INVENTOR(S): Shoji, Yasuo; Inoue, Makoto; Okamura, Takashi; Hashimoto, Kinji; Ohara, Masayuki; Yasuda, Tsuneo
PATENT ASSIGNEE(S): Otsuka Pharmaceutical Factory, Inc., Japan
SOURCE: PCT Int. Appl., 89 pp.
CODEN: P1XXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9535298	A1	19951228	WO 1995-JP1104	19950605
W: AU, CA, CN, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2169719	A1	19951228	CA 1995-2169719	19950605
CA 2169719	C	20020416		
AU 9525765	A	19960115	AU 1995-25765	19950605
AU 680370	B2	19970724		
EP 714898	A1	19960605	EP 1995-920260	19950605
EP 714898	B1	20011114		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1131948	A	19960925	CN 1995-190760	19950605
CN 1046730	B	19991124		
JP 08311068	A	19961126	JP 1995-137878	19950605
JP 1163412	B2	20010508		
JP 08310951	A	19961126	JP 1995-137890	19950605
JP 1163413	B2	20010508		
AT 208776	T	20011115	AT 1995-920260	19950605
ES 2164153	T3	20020216	ES 1995-920260	19950605
PT 714898	T	20020429	PT 1995-920260	19950605
US 5707997	A	19980113	US 1996-602824	19960221
PRIORITY APPLN. INFO.:			JP 1994-138635	A 19940621
			JP 1995-53997	A 19950314
			WO 1995-JP1104	W 19950605

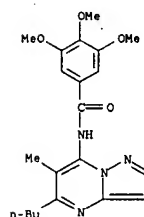
OTHER SOURCE(S): MARPAT 124:261026
GI



AB The title compds. I (R1 represents hydrogen, lower alkyl, cycloalkyl, thienyl, furyl, lower alkenyl or phenyl; R2 represents naphthyl, cycloalkyl, furyl, thienyl, pyridyl, phenoxy or phenyl; R3 represents

L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1966:27540 CAPLUS
DOCUMENT NUMBER: 64:27540
ORIGINAL REFERENCE NO.: 64:5086g-h, 5087a-h, 5088a-d
TITLE: Syntheses of pyrazole derivatives. XI. Acetylation products of 7-aminopyrazolo[1,5-a]pyrimidines.
Supplement
Takanizawa, Akira; Hamashima, Yoshio
Shionogi Co., Ltd., Osaka
Chemical & Pharmaceutical Bulletin (1965), 13(10), 1207-20
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
AB cf. CA 63, 5644b. The steric effect of substituents at C-6 of pyrazolopyrimidine ring on the NH2 group at C-7 was investigated. A mixture of 2 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine, 10 ml. Ac2O, and 20 ml. pyridine was heated at 105° for 5.5 hrs. to give 1.8 g. 7-acetamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 83-4°. The same reaction could be carried out with AcCl in pyridine. Similarly 500 mg. 2-methyl-5-phenyl-7-aminopyrazolo[1,5-a]pyrimidine gave 450 mg. 2-methyl-5-phenyl-7-acetamidopyrazolo[1,5-a]pyrimidine, m. 196-8°, and 5-phenyl-7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave 84.8% yield of 5-phenyl-7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 165-6°. On the other hand acetylation of 500 mg. 2-phenyl-7-amino-5,6-dimethylpyrazolo[1,5-a]pyrimidine with 5 ml. Ac2O and 15 ml. pyridine at 100° for 3 hrs. gave 84.7% 2-phenyl-7-diacylamino-5,6-dimethylpyrazolo[1,5-a]pyrimidine, m. 168-9°. Mild acetylation of 500 mg. 6-phenyl-7-amino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine at 100° for 12 hrs. gave 490 mg. 6-phenyl-7-acetamido-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 228-9°, which on acetylation at 115° for 6 hrs. gave 89.6% 6-phenyl-7-diacylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 105°. These results indicated that 7-amino group gave a diacetate when an alkyl or aryl group was present at C-6. Compds. with electroneg. COOEt and CN groups at C-6 were examined. Thus, acetylation of 1 g. ethyl 2-methyl-7-aminopyrazolo[1,5-a]pyrimidine-6-carboxylate (I) on acetylation with 10 ml. Ac2O and 20 ml. pyridine in a sealed tube at 110° for 15 hrs. gave 338 mg. ethyl 2-methyl-7-acetylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate (II), m. 169-7°, and 102 mg. ethyl 2-methyl-7-diacylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 100-3°. The diacetate on Al2O3 in CHCl3 gave II, whereas the reacylation of II gave the diacetate. Similarly 1.5 g. ethyl 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate (III) gave 1.55 g. ethyl 7-diacylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 83-5°, which on chromatography over Al2O3 in EtOAc gave ethyl 7-acetylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine (IV), m. 143-5°. Methylation of 500 mg. II with 500 mg. MeI in 10 ml. acetone in a sealed tube at 110° for 5 hrs. gave ethyl 7-acetylamino-2,4-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (V), m. 143°. Similarly, 200 mg. IV gave 23 mg. ethyl 7-acetylamino-2,3,4-trimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (VI), m. 176°. V and VI were also synthesized in another way. Methylation of 1.1 g. I with 0.71 g. MeI in 30 ml. acetone in a sealed tube at 100° for 6 hrs. gave the methiodide, m. 152° which was dissolved in H2O and neutralized with K2CO3 to give ethyl 7-amino-2,4-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 208°, which on acetylation at room temperature gave V identical with the above samples. Similarly, 2 g. III gave 1.42 g. hydriodide, m. 205°, which on neutralization gave ethyl

L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
hydrogen, Ph or lower alkyl; R4 represents hydrogen, lower alkyl, lower alkoxy, carbonyl, phenyl-substituted lower alkyl, Ph or halogen; R5 represents hydrogen or lower alkyl; R6 represents hydrogen, lower alkyl, phenyl-substituted lower alkyl or benzoyl; Q represents carbonyl or sulfonyl; A represents a single bond, lower alkylene or lower alkenylene; and n represents 0 or 1 are prepd. The title compd. II (prepn. given) at 3 mg/Kg orally showed potent analgesic activity in rats.
174859-41-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrazolopyrimidine derivs. as analgesics)
RN 174859-41-7 CAPLUS
CN Benzamide, N-(5-butyl-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (SCI) (CA INDEX NAME)

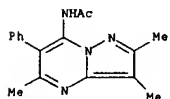


L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
7-amino-2,3,4-trimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (VII), m. 228°. Its acetylation gave VI. Hydrolysis of VI and VII with 20% HCl under reflux for 24 hrs. gave the known 2,3,4-trimethylpyrazolo[1,5-a]pyrimidine-7(4H)-one. Just as methylation, ethylation of 2.2 g. I gave 564 mg. ethyl 2-methyl-4-ethyl-7-imino-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 155-6°, and 2 g. III gave ethyl 4-ethyl-7-imino-2,3-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 181-2°. On the other hand acetylation of 500 mg. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile with 10 ml. pyridine and 5 ml. Ac2O at room temp. for 30 hrs. gave only the monoacetate, 7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile, m. 204-5°, which was also obtained by the acetylation at 110° for 8 hrs. An explanation was suggested to explain these results. Benzoylation was next tried. Treatment of 1 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine with 10 ml. pyridine and 1.86 g. BzCl at 110° for 1 hr. gave 1.2 g. 7-benzamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 138-9°. Similarly, 250 mg. 7-amino-3,6-dimethylpyrazolo[1,5-a]pyrimidine gave 200 mg. 7-benzamido-3,6-dimethylpyrazolo[1,5-a]pyrimidine, m. 187-8°. Similarly, other 7-acylamino compds. were prepd. Thus, a suspension of 5.7 g. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine and 5 g. K2CO3 in 40 ml. dimethylformamide was treated with ClCH2COCl and the mixt. heated on a steam bath for 6 hrs. to give 1.94 g. 7-(2-chloroacetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine (VIII), m. 175°. Replacement of ClCH2COCl by ClCH2CO2 and carrying out the reaction in CHCl3 gave the same result. On the other hand, the reaction of 7-amino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (IX) with ClCH2COCl in CHCl3 did not proceed, but on refluxing 1 g. IX with 1 g. anhydride in CHCl3 for 5 hrs. gave 960 mg. 7-(2-chloroacetamido)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 152-3°. However when 1.76 g. IX was treated with 1.13 g. ClCH2COCl in 20 ml. dimethylformamide on a steam bath for 1 hr., the product (634 mg.) was 7-(dimethylaminoethylideneamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (X), m. 119°, whose structure was proved by its spectral data. When ClCH2COCl was replaced by AcCl, 1 g. IX gave X and 7-acetamido-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine. Reaction of 1.68 g. VIII with 1.27 g. Me2NH in CHCl3 in a sealed tube at 105° for 6.5 hrs. gave 1.28 g. 7-(2-dimethylaminoacetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 168-70° which on reduct. with LiAlH4 in tetrahydrofuran gave 7-(2-dimethylaminoethylideneamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 103-4°. As expected the reaction of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave ethyl 2,3-dimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 113°, with ClCO2Et; 7-(3,3-dimethylureido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 163° with ClCONMe2; 7-(piperidinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 126° with piperidinocarbonyl chloride; and 7-(morpholinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 208°. IX was less reactive and on treatment with ClCO2Et gave ethyl 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 133-5°. 7-Alkylamino compds. were synthesized. Hydrolysis of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine on hydrolysis gave 2,3-dimethylpyrazolo[1,5-a]pyrimidine-7(4H)-one, which (200 mg.) on refluxing with 10 ml. POCl3 for 3 hrs. gave 193 mg. 7-chloro-2,3-dimethylpyrazolo[1,5-a]pyrimidine (XI), m. 113°. Similarly, IX on hydrolysis gave 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine-7(4H)-one, which with POCl3 gave 864 mg. 7-chloro-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 122°. Similarly were prepd. 7-chloro-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine (XIII), m. 79°. A soln. of 615 mg. XI and 600 mg. NaOAc in 30 ml. MeOH was hydrogenated at room temp. in the presence of 500 mg. 5% Pd-C to absorb 76 ml. H2 within 5 min. to give 480 mg. 2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 54°, which on further

L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
hydrogenation under the same conditions gave 76.2% 2,3-dimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 141-2°. Similarly 500 mg. XII gave 350 mg. 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 110° and 72.5% yield of 2,3,6-trimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 169-70° and 213 mg. XIII gave 156 mg. 2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 81°, hydrochloride, m. 179°. A mixt. of 300 mg. XI and excess of MeNH₂ in CHCl₃ was heated in a sealed tube at 150° for 8 hrs. to give 7-methylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 145-6° and was also obtained by hydrogenation of 7-formamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine. Similarly were prepd. 7-methylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 157°; 7-methylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 174°; 7-dimethylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 71°, hydrochloride, m. 240°; 7-dimethylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 69°, hydrochloride, m. 206°; 7-dimethylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 84°, hydrochloride, m. 250°; 2,3,5-trimethyl-7-piperidinopyrazolo[1,5-a]pyrimidine, m. 132°, hydrochloride, m. 205°; 7-(dimethylcarbamoylmethylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 185-6°, hydrochloride, m. 248° and 7-(dimethylcarbamoylmethylamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 177°. The uv, ir, and N.M.R. spectra of all the compds. were described.

IT 4385-22-2P, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-
RL: PREP (Preparation)
(preparation of)

RN 4385-22-2 CAPLUS
CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)- (8CI) (CA INDEX NAME)



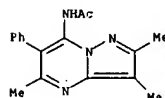
L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1966:11534 CAPLUS
DOCUMENT NUMBER: 64:11534
ORIGINAL REFERENCE NO.: 64:2102f-g
TITLE: 7-Aminopyrazolo[1,5-a]pyrimidine derivatives
INVENTOR(S): Takamizawa, Akira; Hayashi, Sadao; Hamashima, Yoshio
PATENT ASSIGNEE(S): Shionogi & Co., Ltd.
SOURCE: 3 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 40018757	B4	19650823	JP	19630907

PRIORITY APPLN. INFO.:
GI For diagram(s), see printed CA Issue.
AB Manufacture of I, useful as analgesics and antiinflammatory agents, was described. Thus, a solution of 500 mg. 2,3-dimethyl-7-aminopyrazolo[1,5-a]pyrimidine in 10 ml. C₅H₅N is heated on a steam bath 3 hrs. with 5 ml. Ac₂O, the whole concentrated in vacuo, and the residue dissolved in H₂O, made alkaline, and extracted with AcOEt. to give 480 mg. I (R₁ = R₂ = Me, R₃ = R₄ = R₅ = H, R₆ = Ac), m. 135-6° (AcOEt). Similarly prepared are the following I (R₁, R₂, R₃, R₄, R₅, R₆, and m.p. given): H, Me, H, Me, Ac, Ac, 119-21°; H, Me, H, Me, H, Ac, 153°; Me, Me, H, Me, Ac, Ac, 137-8°; Me, Me, H, Me, H, Ac, 158-9°; Me, H, Ph, H, H, Ac, 196-8°; Me, Me, Ph, H, H, Ac, 165-6°; Me, Me, Me, Ph, H, Ac, 229-30°; Me, Me, Me, Ph, Ac, Ac, 105°.

IT 4385-22-2P, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-
RL: PREP (Preparation)
(preparation of)

RN 4385-22-2 CAPLUS
CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)- (8CI) (CA INDEX NAME)

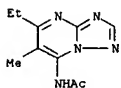


L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1964:3162 CAPLUS
DOCUMENT NUMBER: 60:3162
ORIGINAL REFERENCE NO.: 60:523e-g
TITLE: Condensed heterocycles. IV. Condensation of 3-amino-1,2,4-triazoles with diaceto- and dipropionitriles
AUTHOR(S): Levin, Ya. A.; Kukhtin, V. A.
CORPORATE SOURCE: Cine-Photo Res. Inst., Kazan
SOURCE: Zhurnal Obshchei Khimii (1963), 33(8), 2678-82
CODEN: ZOXA44; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.
AB Heating 3-amino-5-substituted 1,2,4-triazoles with substituted 8-aminoacrylonitriles 30-40 min at 155-200° gave (Ia) (R, R', R'' 1 yield, and m.p. shown, resp.): H Me, H (I), 84, 246-7° (picrate decomposed 212-14°); Pr, Me, H, 61, 180-1°; C₆H₁₃, Me, H, 56, 128-30°; H, Et, Me (II), 72, 262-3°; Pr, Et, Me, 51, 225-6°. I refluxed with Ac₂O in C₅H₅N gave the Ac derivative, m. 230°; similarly was prepared Ac derivative of II, m. 1402°. purified on Al₂O₃ in C₆H₆. I and tosyl chloride gave 75% p-toluenesulfonamido analog, decomposed 283-5° (λ 304 mμ). Treated with Br vapors at 60° in H₂O, I gave 89% 4-amino-5-bromo-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 2457° (λ 261 and 298 mμ). I and aqueous I-KI in the presence of K₂CO₃ at 70-80° gave 4-amino-6-methyl-5-iodo-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 233-5° (λ 260 and 300 mμ). 4-Chloro-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 412°, formed in 82% yield from the 4-oxo analog by refluxing in POCl₃ 3 hrs. Treated with NH₃ in EtOH at 0°, then heated 3 hrs. in an ampul at 100°, this gave 83% 4-amino-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 230-1°, which could not be prepared by the above condensation of aminotriazole with dipropionitrile even at 230°. I and concentrated HCl in 5 hrs. at 140° in a sealed tube gave 3-amino-1,2,4-triazole, isolated as the picrate, decomposed 228-30°. Ultraviolet spectra of Ia are shown.

IT 90973-30-1P, 5-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl-
RL: PREP (Preparation)
(preparation of)

RN 90973-30-1 CAPLUS
CN 5-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl- (7CI) (CA INDEX NAME)



=> file registry
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
63.04	236.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY	SESSION
-7.80	-7.80

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DICTIONARY FILE UPDATES: 26 JUL 2007 HIGHEST RN 943513-14-2

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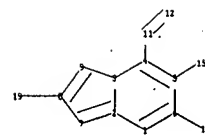
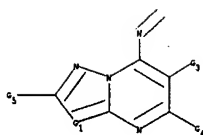
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chain nodes :

11 12 15 16 19

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

4-11 5-15 6-16 8-19 11-12

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-11 5-6 5-15 6-16 7-8 8-9 8-19 11-12

G1:C,N

G2:C,O,S,N,Ak,Cy

G3:C,Cy,Ak

G4:CN,X,C,S,N,Ak,Cb,O

G5:CN,NH2,NO2,Ak,C,H,N,X,Cb

Match level :

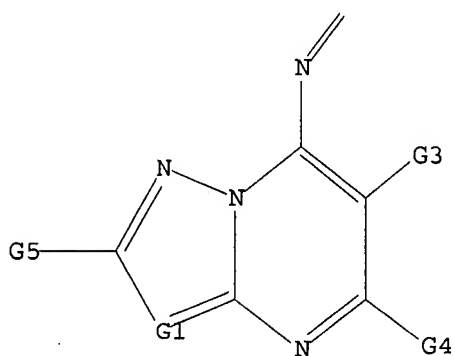
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
12:CLASS 15:CLASS 16:CLASS 19:CLASS

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



G1 C,N

G2 C,O,S,N,Ak,Cy

G3 C,Cy,Ak

G4 CN,X,C,S,N,Ak,Cb,O

G5 CN,NH2,NO2,Ak,C,H,N,X,Cb

Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 17:19:51 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 914 TO ITERATE

100.0% PROCESSED 914 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

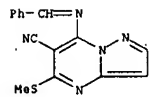
PROJECTED ITERATIONS: 16467 TO 20093

PROJECTED ANSWERS: 3 TO 163

L6 3 SEA SSS SAM L5

=> d scan

L6 3 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Pyrazolo[1,5-a]pyrimidine-6-carbonitrile, 5-(methylthio)-7-
[(phenylmethylene)amino]- (9CI)
MF C15 H11 N5 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 15 sss full
FULL SEARCH INITIATED 17:20:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 18655 TO ITERATE

100.0% PROCESSED 18655 ITERATIONS 20 ANSWERS
SEARCH TIME: 00.00.01

L7 20 SEA SSS FUL L5

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	172.10	408.80
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-7.80

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FILE LAST UPDATED: 26 Jul 2007 (20070726/ED)

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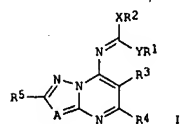
=> s 17
L8 12 L7

=> d 18 1-12 ibib abs hitstr

L8 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN

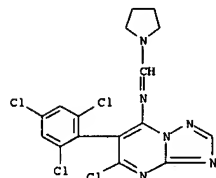
ACCESSION NUMBER: 2005:962261 CAPLUS
 DOCUMENT NUMBER: 143:266948
 TITLE: Preparation of azolopyrimidines as agrochemical fungicides.
 INVENTOR(S): Schwoegler, Anja; Gewehr, Markus; Mueller, Bernd; Grote, Thomas; Grammenos, Vassilios; Tormo i Blasco, Jordi; Rheinheimer, Joachim; Blettner, Carsten; Schaefer, Peter; Schiawek, Frank; Wagner, Oliver; Stierl, Reinhard; Schoeffl, Ulrich; Strathmann, Siegfried; Scherer, Maria
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 96 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080396	A2	20050901	WO 2005-EP1965	20050224
WO 2005080396	A3	20051124		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1720879	A2	20061115	EP 2005-715521	20050224
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
PRIORITY APPLN. INFO.:			DE 2004-102004009178A	20040225
			WO 2005-EP1965	W 20050224
OTHER SOURCE(S):			MARPAT 143:266948	
GI				

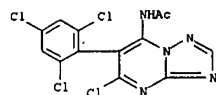


AB Title compds. I; A = N, CR6; X, Y = bond, O, S, NR7; R1, R2 = (substituted) alkyl, alkenyl, alkynyl, cycloalkenyl, Ph, phenylalkyl, naphthyl, naphthylalkyl, (aromatic) heterocyclyl, heterocyclylalkyl, etc.; YR1, X2 = H, cyano, NO2, halo, atoms to form (substituted) (heterocyclic) 5-7 membered rings, etc.; R3 = (substituted)

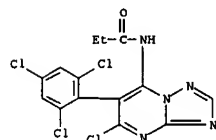
L8 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 863604-57-3 CAPLUS
 CN Acetamide, N-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

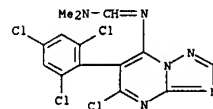


RN 863604-58-4 CAPLUS
 CN Propanamide, N-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

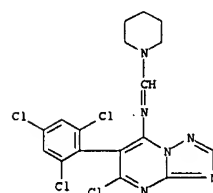


L8 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

alkyl, alkenyl, alkadienyl, alkynyl, cycloalkyl, cycloalkenyl, bicycloalkyl, Ph, phenylalkyl, naphthyl, (arom.) heterocyclyl, heterocyclylalkyl, etc.; R4 = halo, cyano, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, etc.; R5 = H, cyano, NO2, NH2, CH2NH2, halo, haloalkyl, alkyl, alkenyl, etc.; were prepd. Thus, a -8" mixt. of POC13 and DMF was treated with 7-amino-5-chloro-6-(2,4,6-trifluorophenyl)triazolo[1,5-a]pyrimidine hydrochloride in DMF and Et3N to give 66t I (YR1 = NMe2; X2, R5 = H; R3 = 2,4,6-trifluorophenyl; R4 = Cl). The latter at 250 ppm reduced incidence of Alternaria solani on tomatoes to 51t, vs. 100t for untreated controls.
 IT 863604-54-0P 863604-55-1P 863604-56-2P
 863604-57-3P 863604-58-4P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of azolopyrimidines as agrochem. fungicides)
 RN 863604-54-0 CAPLUS
 CN Methanimidamide, N'-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 863604-55-1 CAPLUS
 CN Piperidine, 1-[[[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]imino]methyl]- (9CI) (CA INDEX NAME)



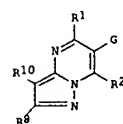
RN 863604-56-2 CAPLUS
 CN Pyrrolidine, 1-[[[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]imino]methyl]- (9CI) (CA INDEX NAME)

L8 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2002:391719 CAPLUS
 DOCUMENT NUMBER: 136:401776
 TITLE: Preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compounds such as pyrazolopyrimidines
 INVENTOR(S): Kato, Fuminori; Kimura, Hirohiko; Omatsu, Masatoshi; Yamamoto, Kazuhiro; Miyamoto, Ryuji
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
 SOURCE: PCT Int. Appl., 102 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

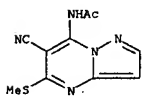
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040485	A1	20020523	WO 2001-JP10061	20011116
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
JP 2002212076	A	20020731	JP 2001-346339	20011112
CA 2429067	A1	20020523	CA 2001-2429067	20011116
AU 200215223	A	20020527	AU 2002-15223	20011116
EP 1334973	A1	20030813	EP 2001-983816	20011116
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
IN 2003000552	A	20050311	IN 2003-KN552	20030430
US 2004043998	A1	20040304	US 2003-416164	20030515
US 7067520	B2	20060627		
PRIORITY APPLN. INFO.:			JP 2000-351764	A 20001117
			WO 2001-JP10061	W 20011116

OTHER SOURCE(S): CASREACT 136:401776; MARPAT 136:401776
 GI

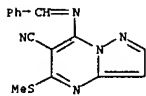


AB The title compds. I [G is CN, NO2, etc.; R1 is halogeno, etc.; R2 is halogeno, optionally substituted amino, etc.; and R8 and R10 are each independently hydrogen, halogeno, or alkyl] are prepared. Processes for preparing I are disclosed. Compds. of this invention at 50 mg/kg orally gave

L8 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 statistically significant decreases of blood sugar in diabetic mice.
 IT 429694-71-3P 429694-96-2P
 RL: INF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 containing fused-heterocycle compds. or their salts)
 RN 429694-71-3 CAPLUS
 CN Acetamide, N-[6-cyano-5-(methylthio)pyrazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



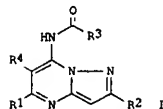
RN 429694-96-2 CAPLUS
 CN Pyrazolo[1,5-a]pyrimidine-6-carbonitrile, 5-(methylthio)-7-[(phenylmethylene)amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

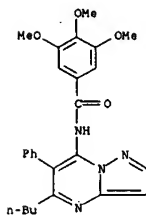
L8 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 1998:650390 CAPLUS
 DOCUMENT NUMBER: 131:271882
 TITLE: Preparation of pyrazolo[1,5-a]pyrimidines as nitrogen monoxide synthase inhibitors
 INVENTOR(S): Koji, Yasuo; Okamura, Takashi; Hashimoto, Kinji; Kondo, Mitsuyoshi; Shibutani, Naotaka
 PATENT ASSIGNEE(S): Ohtsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JXOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11279178	A	19991012	JP 1999-18861	19990127
PRIORITY APPLN. INFO.:			JP 1998-17068	A 19980129
OTHER SOURCE(S):		MARFAT 131:271882		
GI				

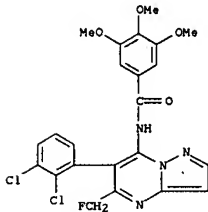


AB Title compds. [I; R1 = CH3(CH2)3, CF3CH2CH2, FCH2CH2, (4-FC6H4)2C:CHCH2, CF3CH2OCH2, OPr-n, OEt, C6H5(CH2)3, C6H5CH2; R2 = H, 2-pyrazinyl; R3 = 4-MeSC6H4, 3,4,5-(MeO)3C6H2, 2,4-(Cl)2C6H3, 4-PhSO2C6H4, 2-MeSO2C6H4, 4-MeSO2C6H4, 4-PhSO2C6H4, 2-MeSO2C6H4, 4-MeSO2C6H4, 2-PhCONHC6H4, 2-AcNHC6H4, 2-PhOC6H4, 4-PhOC6H4, 2-MeOC6H4; R4 = H, C6H5, 2,3-(Cl)2C6H3] are prepared as nitrogen monoxide synthase inhibitors effective as pain killer and treatment or prevention of septicemia, endotoxin shock, chronic arthrorheumatism (no data). Thus, the title compound I (R1 = C6H5CH2; R2 = H; R3 = 3,4,5-(MeO)3C6H2; R4 = H) was prepared
 IT 245095-93-6P 245096-78-OP
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyrazolo[1,5-a]pyrimidines as nitrogen monoxide synthase inhibitors)
 RN 245095-93-6 CAPLUS
 CN Benzamide, N-(5-butyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

L8 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

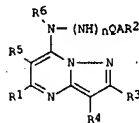


RN 245096-78-0 CAPLUS
 CN Benzamide, N-[6-(2,3-dichlorophenyl)-5-(fluoromethyl)pyrazolo[1,5-a]pyrimidin-7-yl]-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

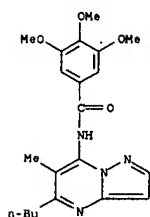


L8 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 1998:246630 CAPLUS
 DOCUMENT NUMBER: 128:248613
 TITLE: Adenosine reinforcement agents
 INVENTOR(S): Moritoki, Hideki; Iwamoto, Takeshi; Yasuda, Tsuneo
 PATENT ASSIGNEE(S): Ohtsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
 CODEN: JXOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10101672	A	19980421	JP 1997-208772	19970804
PRIORITY APPLN. INFO.:			JP 1996-207171	A 19960806
OTHER SOURCE(S):		MARFAT 128:248613		
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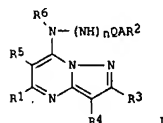


AB The title compds. [I; R1 = H, lower alkoxy or alkylthio, oxo, etc.; R2 = naphthyl, cycloalkyl, (un)substituted phenoxy, etc.; R3 = H, Ph, lower alkyl; R4 = H, lower alkyl, halo, aralkyl, etc.; R5 = H, lower alkyl; R6 = H, lower alkyl, (un)substituted benzoyl, etc.; Q = CO, SO2; A = single bond, lower alkylene or alkenylene; n = 0, 1] are presented as adenosine reinforcement agents. I, possessing adenosine reinforcement activity, are useful for prevention and treatment of heart attack, myocardial and brain infarction. Ten compds. of I were tested and showed excellent adenosine reinforcement activity. Formulation containing I were also prepared
 IT 174859-41-7
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (adenosine reinforcement agents)
 RN 174859-41-7 CAPLUS
 CN Benzamide, N-(5-butyl-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1998:246629 CAPLUS
 DOCUMENT NUMBER: 128:248612
 TITLE: Nitrogen monooxide synthase inhibitors
 INVENTOR(S): Moritoki, Hideaki; Iwamoto, Takeshi; Yasuda, Tsunao
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10101671	A	19980421	JP 1997-207867	19970801
PRIORITY APPLN. INFO.:		JP 1996-209465 A 19960808		
OTHER SOURCE(S):		MARPAT 128:248612		
GI				

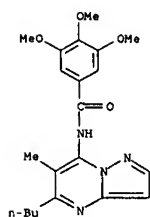


AB The title compds. (I; R1 = H, lower alkoxy or alkylthio, oxo, etc.; R2 = naphthyl, cycloalkyl, (un)substituted phenoxy, etc.; R3 = H, Ph, lower alkyl; R4 = H, lower alkyl, halo, aralkyl, etc.; R5 = H, lower alkyl; R6 = H, lower alkyl, (un)substituted benzoyl, etc.; Q = CO, SO2; A = single bond, lower alkylene or alkenylene; n = 0, 1) are presented as NO synthase inhibitors. I are useful for prevention and treatment of septicemia. 14 Comps. of I were tested and showed excellent NO synthase inhibitory activity. Formulation containing I were also prepared

IT 174859-41-7
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pyrazolopyrimidine derivs. as nitrogen monooxide synthase inhibitors)

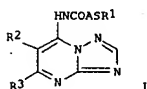
RN 174859-41-7 CAPLUS

CN Benzamide, N-(5-butyl-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L8 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:465087 CAPLUS
 DOCUMENT NUMBER: 127:81462
 TITLE: Preparation of triazolopyrimidine derivatives as ACAT inhibitors
 INVENTOR(S): Sato, Masakazu; Mannaka, Akira; Takahashi, Keiko; Tomizawa, Kazuyuki
 PATENT ASSIGNEE(S): Taisho Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09169763	A	19970630	JP 1995-333247	19951221
JP 3716472	B2	20051116		
PRIORITY APPLN. INFO.:		JP 1995-333247 19951221		
OTHER SOURCE(S):		MARPAT 127:81462		
GI				

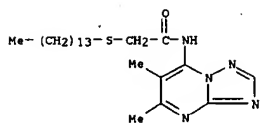


AB The title compds. (I; X = ASR1; A = C1-4 alkylene; R1 = C1-20 alkyl; R2 = H, C1-4 alkyl; R3 = Me, morpholino) are prepared I, possessing Acyl-CoA Cholesterolacyltransferase (ACAT) inhibitory activity, are useful as lipid lowering agents and arteriosclerosis remedies. Thus, Me(CH2)13SH was treated with NaH and then reacted with I (X = Me2Br, R2 = Me, R3 = morpholino) (preparation given) to give the title compound I [X = Me2S(CH2)13Me, R2 = Me, R3 = morpholino], which showed IC50 of 6.05 X 10-6 M against ACAT when tested with rabbits.

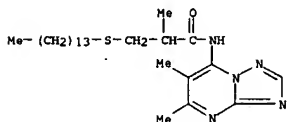
IT 191655-89-7P 191655-90-0P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of triazolopyrimidine derivs. as ACAT inhibitors)

RN 191655-89-7 CAPLUS

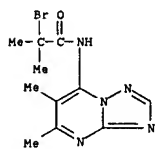
CN Acetamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-(tetradecylthio)- (9CI) (CA INDEX NAME)



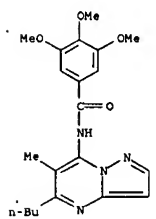
RN 191655-90-0 CAPLUS
CN Propanamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl-3-(tetradecylthio)- (9CI) (CA INDEX NAME)



IT 191655-98-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of triazolopyrimidine derivs. as ACAT inhibitors)
RN 191655-98-8 CAPLUS
CN Propanamide, 2-bromo-N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl- (9CI) (CA INDEX NAME)



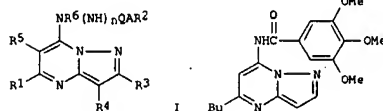
L8 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
hydrogen, Ph or lower alkyl; R4 represents hydrogen, lower alkyl, lower alkoxy, carbonyl, phenyl-substituted lower alkyl, Ph or halogen; R5 represents hydrogen or lower alkyl; R6 represents hydrogen, lower alkyl, phenyl-substituted lower alkyl or benzoyl; Q represents carbonyl or sulfonyl; A represents a single bond, lower alkylene or lower alkenylene; and n represents 0 or 1 are prep. The title compd. II (prepn. given) at 3 mg/Kg orally showed potent analgesic activity in rats.
IT 174859-41-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrazolopyrimidine derivs. as analgesics)
RN 174859-41-7 CAPLUS
CN Benzanide, N-(5-butyl-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L8 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1996:196727 CAPLUS
DOCUMENT NUMBER: 124:261026
TITLE: Preparation and formulation of pyrazolopyrimidine derivatives as analgesics
INVENTOR(S): Shoji, Yasuo; Inoue, Makoto; Okamura, Takashi; Hashimoto, Kinji; Ohara, Masayuki; Yasuda, Tsuneo
PATENT ASSIGNEE(S): Otsuka Pharmaceutical Factory, Inc., Japan
SOURCE: PCT Int. Appl., 89 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

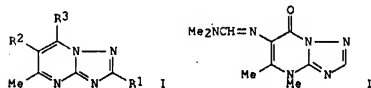
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9535298	A1	19951228	WO 1995-JP1104	19950605
W: AU, CA, CN, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2169719	A1	19951228	CA 1995-2169719	19950605
CA 2169719	C	20020416		
AU 9525765	A	19960115	AU 1995-25765	19950605
AU 680370	B2	19970724		
EP 714898	A1	19960605	EP 1995-920260	19950605
EP 714898	B1	20011114		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1131948	A	19960925	CN 1995-190760	19950605
CN 1046730	B	19991124		
JP 08311068	A	19961126	JP 1995-137878	19950605
JP 3163412	B2	20010508		
JP 08310951	A	19961126	JP 1995-137890	19950605
JP 3163413	B2	20010508		
AT 208776	T	20011115	AT 1995-920260	19950605
ES 2164153	T3	20020216	ES 1995-920260	19950605
PT 714898	T	20020429	PT 1995-920260	19950605
US 5707997	A	19980113	US 1996-602824	19960221
PRIORITY APPLN. INFO.:			JP 1994-138635	A 19940621
			JP 1995-53997	A 19950314
			WO 1995-JP1104	W 19950605

OTHER SOURCE(S): MARPAT 124:261026
GI

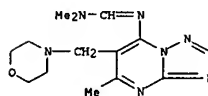


AB The title compds. I (R1 represents hydrogen, lower alkyl, cycloalkyl, thienyl, furyl, lower alkenyl or phenyl; R2 represents naphthyl, cycloalkyl, furyl, thienyl, pyridyl, phenoxy or phenyl; R3 represents

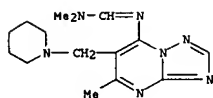
L8 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1991:101919 CAPLUS
DOCUMENT NUMBER: 114:101919
TITLE: 1,2,4-Triazolo[1,5-a]pyrimidines. Part 8. Reactions of amino- and hydrazino-1,2,4-triazolo[1,5-a]pyrimidine derivatives with dimethylformamide dimethyl acetal
AUTHOR(S): Hempel, Ute; Lippmann, Eberhard; Tenor, Ernst
CORPORATE SOURCE: Sek. Chem., Karl-Marx-Univ., Leipzig, DDR-7010, Ger. Dem. Rep.
SOURCE: Zeitschrift fuer Chemie (1990), 30(9), 320-1
CODEN: ZECRAL; ISSN: 0044-2402
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 114:101919
GI



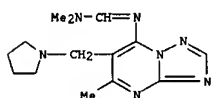
AB The preparation of amidine derivs. of Rocornal was described. The amidination of 7-amino-1,2,4-triazolo[1,5-a]pyrimidine derivs. with Me2NCH(OMe)2 gave N,N-dimethyl-N'-(5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)formamides I (R1 = H, NHCOMe; R2 = H, piperidinomethyl, morpholinomethyl, pyrrolidinomethyl, CH2NET2, NO2; R3 = N:CHNMe2). The reaction of I (R1 = R2 = H, R3 = N:CHNMe2) with H2NOH.HCl gave N-(5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)formamides. The reaction of 7-hydrazino-5-methyl-1,2,4-triazolo[1,5-a]pyrimidine with Me2NCH(OMe)2 gave only the methylated product, i.e., N,N-dimethyl-N'-(5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)formamides. The reaction of 6-amino-5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7(4H)one with Me2NCH(OMe)2 gave the amidrazone II.
IT 122375-46-6P 122375-48-8P 122375-49-9P 122375-50-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 122375-46-6 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-(5-methyl-6-(1-piperidinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



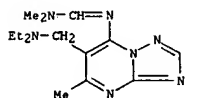
RN 122375-48-8 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-(5-methyl-6-(1-piperidinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



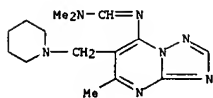
RN 122375-49-9 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[5-methyl-6-(1-pyrrolidinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



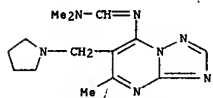
RN 122375-50-2 CAPLUS
CN Methanimidamide, N'-[6-[(diethylamino)methyl]-5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



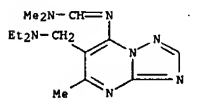
RN 122375-46-6 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[5-methyl-6-(4-morpholinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 122375-49-9 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[5-methyl-6-(1-pyrrolidinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



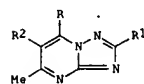
RN 122375-50-2 CAPLUS
CN Methanimidamide, N'-[6-[(diethylamino)methyl]-5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 122375-50-2 CAPLUS
CN Methanimidamide, N'-[6-[(diethylamino)methyl]-5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1989:515204 CAPLUS
DOCUMENT NUMBER: 111:115204
TITLE: Preparation of N,N-dimethyl-N'-[5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl]formamidines
INVENTOR(S): Hempel, Ute; Lippmann, Eberhard; Stopp, Helga; Tenor, Ernst; Thomas, Eckhard
PATENT ASSIGNEE(S): VEB Deutsches Hydrierwerk, Ger. Dem. Rep.
SOURCE: Ger. (East), 3 pp.
CODEN: GEXXAS
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

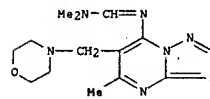
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 264438	A1	19890201	DD 1987-306940	19870914
PRIORITY APPLN. INFO.:		DD 1987-306940	DD 1987-306940	19870914
OTHER SOURCE(S):		CASREACT 111:115204; MARPAT 111:115204		



AB The title compds. (I: R = N:CHNMe2; R1 = H, alkyl; R2 = H, piperidinomethyl, morpholinomethyl, pyrrolidinomethyl, CH2NEt2) were prepared by condensation of I (R = NH2) with HC(OMe)2NMe2 (II). Thus, I (R = NH2, R1 = R2 = H) was refluxed 2 h with II in PhMe to give 66% (R = N:CHNMe2, R1 = R2 = H).

IT 122375-46-6P 122375-48-8P 122375-49-9P
122375-50-2P
RI: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 122375-46-6 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[5-methyl-6-(4-morpholinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 122375-48-8 CAPLUS
CN Methanimidamide, N,N-dimethyl-N'-[5-methyl-6-(1-piperidinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

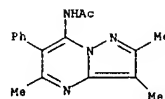
ACCESSION NUMBER: 1966:27540 CAPLUS
DOCUMENT NUMBER: 64:27540
ORIGINAL REFERENCE NO.: 64:5086g-h, 5087a-h, 5088a-d
TITLE: Syntheses of pyrazole derivatives. XI. Acetylation products of 7-aminopyrazolo[1,5-a]pyrimidines. Supplement
AUTHOR(S): Takamizawa, Akira; Hamashima, Yoshio
CORPORATE SOURCE: Shionogi Co., Ltd., Osaka
SOURCE: Chemical & Pharmaceutical Bulletin (1965), 13(10), 1207-20
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English

AB cf. CA 63, 5644b. The steric effect of substituents at C-6 of pyrazolopyrimidine ring on the NH2 group at C-7 was investigated. A mixture of 2 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine, 10 ml. Ac2O, and 20 ml. pyridine was heated at 105° for 5.5 hrs. to give 1.8 g. 7-acetamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 83-4°. The same reaction could be carried out with AcCl in pyridine. Similarly 500 mg. 2-methyl-5-phenyl-7-aminopyrazolo[1,5-a]pyrimidine gave 450 mg. 2-methyl-5-phenyl-7-acetamidopyrazolo[1,5-a]pyrimidine, m. 196-8°; and 5-phenyl-7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave 84.8% yield of 5-phenyl-7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 165-6°. On the other hand acetylation of 500 mg. 2-phenyl-7-amino-5,6-dimethylpyrazolo[1,5-a]pyrimidine with 5 ml. Ac2O and 15 ml. pyridine at 100° 3 hrs. gave 84.7% 2-phenyl-7-diacetylmino-5,6-dimethylpyrazolo[1,5-a]pyrimidine, m. 168-9°. Mild acetylation of 500 mg. 6-phenyl-7-amino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine at 100° for 12 hrs. gave 490 mg. 6-phenyl-7-acetamido-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 228-9°, which on reacetylation at 115° for 6 hrs. gave 89.6% 6-phenyl-7-diacetylmino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 105°. These results indicated that 7-amino group gave a diacetate when an alkyl or aryl group was present at C-6. Compds. with electroneg. COOEt and CN groups at C-6 were examined. Thus, acetylation of 1 g. ethyl 2-methyl-7-aminopyrazolo[1,5-a]pyrimidine-6-carboxylate (I) on acetylation with 10 ml. Ac2O and 20 ml. pyridine in a sealed tube at 110° for 15 hrs. gave 338 mg. ethyl 2-methyl-7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (II), m. 169-70°, and 102 mg. ethyl 2-methyl-7-diacetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 100-3°. The diacetate on Al2O3 in CHCl3 gave II, whereas the reacetylation of II gave the diacetate. Similarly 1.5 g. ethyl 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate (III) gave 1.55 g. ethyl 7-diacetylmino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 83-5°, which on chromatography over Al2O3 in EtOAc gave ethyl 7-acetylmino-2,3-dimethylpyrazolo[1,5-a]pyrimidine (IV), m. 143-5°. Methylation of 500 mg. II with 500 mg. MeI in 10 ml. acetone in a sealed tube at 110° for 5 hrs. gave ethyl 7-acetylmino-2,4-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (V), m. 143°. Similarly, 200 mg. IV gave 23 mg. ethyl 7-acetylmino-2,3,4-trimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (VI), m. 176°. V and VI were also synthesized in another way. Methylation of 1.1 g. I with 0.71 g. MeI in 30 ml. acetone in a sealed tube at 100° for 6 hrs. gave the methiodide, m. 152° which was dissolved in H2O and neutralized with K2CO3 to give ethyl 7-amino-2,4-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 208°, which on acetylation at room temperature gave V identical with the above samples. Similarly, 2 g. III gave 1.42 g. hydriodide, m. 205°, which on neutralization gave ethyl

L8 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 7-amino-2,3,4-trimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (VII), m. 228°. Its acetylation gave VI. Hydrolysis of VI and VII with 20% HCl under reflux for 24 hrs. gave the known 2,3,4-trimethylpyrazolo[1,5-a]pyrimidine-7(4H)-one. Just as methylation, ethylation of 2.2 g. I gave 564 mg. ethyl 2-methyl-4-ethyl-7-amino-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 155-6°; and 2 g. III gave ethyl 4-ethyl-7-amino-2,3-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 181-2°. On the other hand acetylation of 500 mg. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile with 10 ml. pyridine and 5 ml. Ac2O at room temp. for 30 hrs. gave only the monoacetate, 7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile, m. 204-5°, which was also obtained by the acetylation at 110° for 8 hrs. An explanation was suggested to explain these results. Benzoylation was next tried. Treatment of 1 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine with 10 ml. pyridine and 1.86 g. BzCl at 110° for 1 hr. gave 1.2 g. 7-benzamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 138-9°. Similarly, 250 mg. 7-amino-3,6-dimethylpyrazolo[1,5-a]pyrimidine gave 200 mg. 7-benzamido-3,6-dimethylpyrazolo[1,5-a]pyrimidine, m. 187-8°. Similarly, other 7-acylamino compds. were prepd. Thus, a suspension of 5.7 g. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine and 5 g. K2CO3 in 40 ml. dimethylformamide was treated with ClCH2COCl and the mixt. heated on a steam bath for 6 hrs. to give 1.94 g. 7-(2-chloroacetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine (VIII), m. 175°. Replacement of ClCH2COCl by (ClCH2CO)2O and carrying out the reaction in CHCl3 gave the same result. On the other hand, the reaction of 7-amino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (IX) with ClCH2COCl in CHCl3 did not proceed, but on refluxing 1 g. IX with 1 g. anhydride in CHCl3 for 5 hrs. gave 960 mg. 7-(2-chloroacetamido)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 152-3°. However when 1.76 g. IX was treated with 1.13 g. ClCH2COCl in 20 ml. dimethylformamide on a steam bath for 1 hr., the product (634 mg.) was 7-(dimethylaminomethylideneamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (X), m. 119°, whose structure was proved by its spectral data. When ClCH2COCl was replaced by AcCl, 1 g. IX gave X and 7-acetamido-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine. Reaction of 1.68 g. VIII with 1.27 g. Me2NH in CHCl3 in a sealed tube at 105° for 6.5 hrs. gave 1.28 g. 7-(2-dimethylaminoacetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 165-70° which on redn. with LiAlH4 in tetrahydrofuran gave 7-(2-dimethylaminoethylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 103-4°. As expected the reaction of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave ethyl 2,3-dimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 113°, with ClCO2Et; 7-(3,3-dimethylureido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 163° with ClCONMe2; 7-(piperidinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 126° with piperidinocarbonyl chloride; and 7-(morpholinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 208°. IX was less reactive and on treatment with ClCO2Et gave ethyl 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 133-5°. 7-Alkylamino compds. were synthesized. Hydrolysis of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine on hydrolysis gave 2,3-dimethylpyrazolo[1,5-a]pyrimidin-7(4H)-one, which (200 mg.) on refluxing with 10 ml. POCl3 for 3 hrs. gave 193 mg. 7-chloro-2,3-dimethylpyrazolo[1,5-a]pyrimidine (XI), m. 113°. Similarly, IX on hydrolysis gave 2,3,6-trimethylpyrazolo[1,5-a]pyrimidin-7(4H)-one, which with POCl3 gave 66% 7-chloro-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 122°. Similarly were prepd. 7-chloro-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine (XII), m. 79°. A soln. of 615 mg. XI and 600 mg. NaOAc in 30 ml. MeOH was hydrogenated at room temp. in the presence of 500 mg. 5% Pd-C to absorb 76 ml. H within 5 min. to give 480 mg. 2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 54°, which on further

L8 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 hydrogenation under the same conditions gave 76.2% 2,3-dimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 141-2°. Similarly 500 mg. XII gave 350 mg. 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 110° and 72.5% yield of 2,3,6-trimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 169-70°; and 213 mg. XIII gave 156 mg. 2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 81°, hydrochloride, m. 179°. A mixt. of 300 mg. XI and excess of MeNH2 in CHCl3 was heated in a sealed tube at 150° for 8 hrs. to give 7-methylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 145-6° and was also obtained by hydrogenation of 7-formamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine. Similarly were prepd. 7-methylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 157°; 7-methylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 174°; 7-dimethylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 71°, hydrochloride, m. 240°; 7-dimethylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 69°, hydrochloride, m. 206°; 7-dimethylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 84°, hydrochloride, m. 250°; 2,3,5-trimethyl-7-piperidinopyrazolo[1,5-a]pyrimidine, m. 132°, hydrochloride, m. 205°; 7-(dimethylcarbamoylmethylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 185-6°, hydrochloride, m. 248°; and 7-(dimethylcarbamoylmethylamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 177°. The uv, ir, and N.M.R. spectra of all the compds. were described.

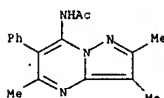
IT 4385-22-2F, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-
 RL: PREP (Preparation)
 (preparation of)
 RN 4385-22-2 CAPLUS
 CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-
 (8CI) (CA INDEX NAME)



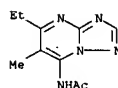
L8 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 1966:11534 CAPLUS
 DOCUMENT NUMBER: 64:11534
 ORIGINAL REFERENCE NO.: 64:2102f-g
 TITLE: 7-Aminopyrazolo[1,5-a]pyrimidine derivatives
 INVENTOR(S): Takamizawa, Akira; Hayashi, Sadao; Hanashima, Yoshio
 PATENT ASSIGNEE(S): Shionogi & Co., Ltd.
 SOURCE: 3 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 40018757	B4	19650823	JP	19630907

 PRIORITY APPLN. INFO.: JP 19630907
 GI For diagram(s), see printed CA issue.
 AB Manufacture of 1, useful as analgesics and antiinflammatory agents, was described. Thus, a solution of 500 mg. 2,3-dimethyl-7-amino-pyrazolo[1,5-a]pyrimidine in 10 ml. C5H5N is heated on a steam bath 3 hrs. with 5 ml. Ac2O, the whole concentrated in vacuo, and the residue dissolved in H2O, made alkaline, and extracted with AcOEt to give 480 mg. I (R1 = R2 = Me, R3 = R4 = R5 = H, R6 = Ac), m. 135-6° (AcOEt). Similarly prepared are the following I (R1, R2, R3, R4, R5, R6, and m.p. given): H, Me, H, Me, Ac, Ac, 119-21°; H, Me, H, Me, H, Ac, 153°; Me, H, Me, H, Me, Ac, Ac, 137-8°; Me, Me, H, Me, H, Ac, 158-9°; Me, H, Ph, H, H, Ac, 196-8°; Me, Me, Ph, H, H, Ac, 165-6°; Me, Me, Me, Ph, H, Ac, 229-30°; Me, Me, Me, Ph, Ac, 105°.
 IT 4385-22-2F, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-
 RL: PREP (Preparation)
 (preparation of)
 RN 4385-22-2 CAPLUS
 CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-
 (8CI) (CA INDEX NAME)



L8 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 1964:3162 CAPLUS
 DOCUMENT NUMBER: 60:3162
 ORIGINAL REFERENCE NO.: 60:523e-g
 TITLE: Condensed heterocycles. IV. Condensation of 3-amino-1,2,4-triazoles with diaceto- and dipropionitriles
 AUTHOR(S): Levin, Ya. A.; Kukhtin, V. A.
 CORPORATE SOURCE: Cine-Photo Res. Inst., Kazan
 SOURCE: Zhurnal Obshchei Khimii (1963), 33(8), 2678-82
 CODEN: ZOKH44; ISSN: 0044-460X
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 GI For diagram(s), see printed CA issue.
 AB Heating 3-amino-5-substituted 1,2,4-triazoles with substituted β-aminoacrylonitriles 30-40 min at 155-200° gave (Ia) (R, R', R'' = yield, and m.p. shown, resp.): H, Me, H (II), 84, 246-7° (picrate decomposed 212-14°); Pr, Me, H, 61, 180-1°; C6H13, Me, H, 56, 128-30°; H, Et, Me (II), 72, 262-3°; Pr, Et, Me, 51, 225-6°. I refluxed with Ac2O in C5H5N gave the Ac derivative, m. 230°, similarly was prepared Ac derivative of II, m. 1402°, purified on Al2O3 in C6H6. I and tosyl chloride gave 75% p-toluenesulfonamido analog, decomposed 283-5° (A 304 mp). Treated with Br vapors at 60° in H2O, I gave 88% 4-amino-5-bromo-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 2457° (A 261 and 298 mp). I and aqueous I-KI in the presence of K2CO3 at 70-80° gave 4-amino-6-methyl-5-iodo-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 233-5° (A 260 and 300 mp). 4-Chloro-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 412°, formed in 82% yield from the 4-oxo analog by refluxing in POCl3 3 hrs. Treated with NH3 in EtOH at 0°, then heated 3 hrs. in an ampul at 100°, this gave 83% 4-amino-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 230-1°, which could not be prepared by the above condensation of aminotriazole with dipropionitrile even at 230°. I and concentrated HCl in 5 hrs. at 140° in a sealed tube gave 3-amino-1,2,4-triazole, isolated as the picrate, decomposed 228-30°. Ultraviolet spectra of Ia are shown.
 IT 90973-30-1P, s-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl-
 RL: PREP (Preparation)
 (preparation of)
 RN 90973-30-1 CAPLUS
 CN s-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl- (7CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 17:03:50 ON 27 JUL 2007)

FILE 'REGISTRY' ENTERED AT 17:04:05 ON 27 JUL 2007

L1 STRUCTURE UPLOADED
L2 2 S L1
L3 12 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 17:06:12 ON 27 JUL 2007

L4 10 S L3

FILE 'REGISTRY' ENTERED AT 17:19:28 ON 27 JUL 2007

L5 STRUCTURE UPLOADED
L6 3 S L5
L7 20 S L5 SSS FULL

FILE 'CAPLUS' ENTERED AT 17:20:11 ON 27 JUL 2007

L8 12 S L7

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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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NEWS	4	MAR 20	MARPAT now updated daily
NEWS	5	MAR 22	LWPI reloaded
NEWS	6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	10	APR 30	CA/CAPLUS enhanced with 1870-1889 U.S. patent records
NEWS	11	APR 30	INPADOC replaced by INPADOCDB on STN

NEWS 12 MAY 01 New CAS web site launched
 NEWS 13 MAY 08 CA/CAPplus Indian patent publication number format defined
 NEWS 14 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields
 NEWS 15 MAY 21 BIOSIS reloaded and enhanced with archival data
 NEWS 16 MAY 21 TOXCENTER enhanced with BIOSIS reload
 NEWS 17 MAY 21 CA/CAPplus enhanced with additional kind codes for German patents
 NEWS 18 MAY 22 CA/CAPplus enhanced with IPC reclassification in Japanese patents
 NEWS 19 JUN 27 CA/CAPplus enhanced with pre-1967 CAS Registry Numbers
 NEWS 20 JUN 29 STN Viewer now available
 NEWS 21 JUN 29 STN Express, Version 8.2, now available
 NEWS 22 JUL 02 LEMBASE coverage updated
 NEWS 23 JUL 02 LMEDLINE coverage updated
 NEWS 24 JUL 02 SCISEARCH enhanced with complete author names
 NEWS 25 JUL 02 CHEMCATS accession numbers revised
 NEWS 26 JUL 02 CA/CAPplus enhanced with utility model patents from China
 NEWS 27 JUL 16 CAPplus enhanced with French and German abstracts
 NEWS 28 JUL 18 CA/CAPplus patent coverage enhanced
 NEWS 29 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification

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 CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

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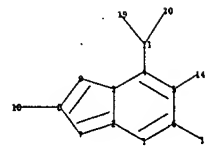
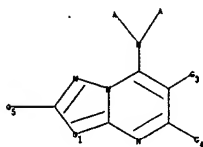
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chain nodes :

11 14 15 18 19 20

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

4-11 5-14 6-15 8-18 11-19 11-20

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-11 5-6 5-14 6-15 7-8 8-9 8-18 11-19
11-20

G1:C,N

G2:C,O,S,N,Ak,Cy

G3:C,Cy,Ak

G4:CN,X,C,S,N,Ak,Cb,O

G5:CN,NH2,NO2,Ak,C,H,N,X,Cb

Match level :

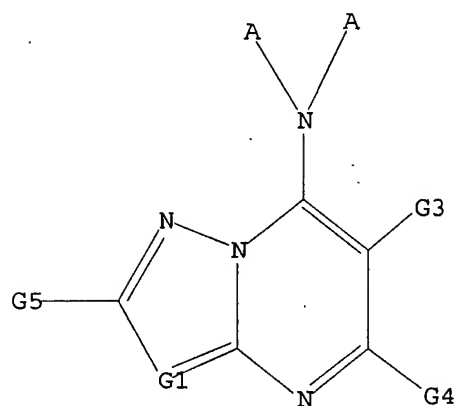
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14:CLASS 15:CLASS 18:CLASS 19:CLASS 20:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C,N

G2 C,O,S,N,Ak,Cy

G3 C,Cy,Ak

G4 CN,X,C,S,N,Ak,Cb,O

G5 CN,NH2,NO2,Ak,C,H,N,X,Cb

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 17:35:55 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1346 TO ITERATE

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35 ANSWERS

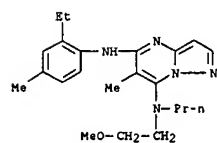
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PROJECTED ITERATIONS: 24720 TO 29120
PROJECTED ANSWERS: 346 TO 1054

L2 35 SEA SSS SAM L1

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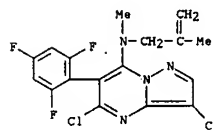
L2 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Pyrazolo[1,5-a]pyrimidine-5,7-diamine, N5-(2-ethyl-4-methylphenyl)-N7-(2-methoxyethyl)-6-methyl-N7-propyl- (9CI)
 MF C22 H31 N5 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

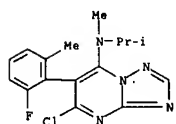
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN Pyrazolo[1,5-a]pyrimidin-7-amine, 3,5-dichloro-N-methyl-N-(2-methyl-2-propenyl)-6-(2,4,6-trifluorophenyl)- (9CI)
 MF C17 H13 Cl2 F3 N4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
 IN [1,2,4]Triazolo[1,5-a]pyrimidin-7-amine, 5-chloro-6-(2-fluoro-6-methylphenyl)-N-methyl-N-(1-methylethyl)- (9CI)
 MF C16 H17 Cl F N5

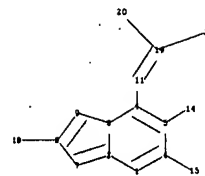
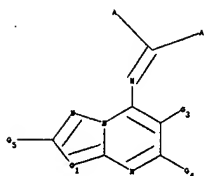


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10589496\10589496d.str



chain nodes :

11 14 15 18 19 20 21

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

4-11 5-14 6-15 8-18 11-19 19-20 19-21

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-11 5-6 5-14 6-15 7-8 8-9 8-18 11-19
19-20 19-21

G1:C,N

G2:C,O,S,N,Ak,Cy

G3:C,Cy,Ak

G4:CN,X,C,S,N,Ak,Cb,O

G5:CN,NH2,NO2,Ak,C,H,N,X,Cb

Match level :

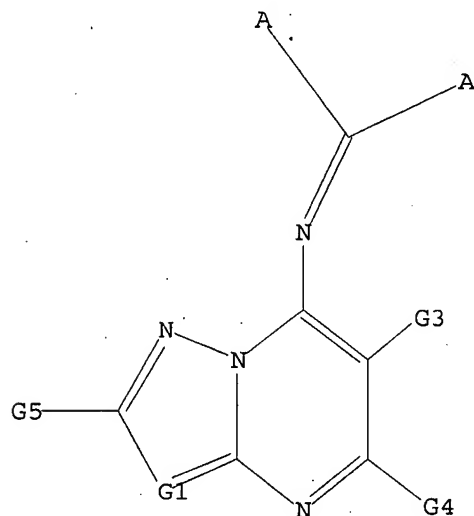
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
14:CLASS 15:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3 STR



G1 C,N

G2 C,O,S,N,Ak,Cy

G3 C,Cy,Ak

G4 CN,X,C,S,N,Ak,Cb,O

G5 CN,NH2,NO2,Ak,C,H,N,X,Cb

Structure attributes must be viewed using STN Express query preparation.

=> s 13

SAMPLE SEARCH INITIATED 17:37:39 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 914 TO ITERATE

100.0% PROCESSED 914 ITERATIONS

SEARCH TIME: 00.00.01

2 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

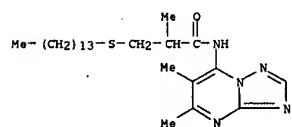
PROJECTED ITERATIONS: 16467 TO 20093

PROJECTED ANSWERS: 2 TO 124

L4 2 SEA SSS SAM L3

=> d scan

L4 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Propanamide, N-[5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]-2-methyl-
3-(tetradecylthio)- (9CI)
MF C25 H43 N5 O S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l3 full sss
FULL SEARCH INITIATED 17:38:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 18655 TO ITERATE

100.0% PROCESSED 18655 ITERATIONS
SEARCH TIME: 00.00.01

8 ANSWERS

L5 8 SEA SSS FUL L3

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
174.35	174.77

FULL ESTIMATED COST

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FILE LAST UPDATED: 26 Jul 2007 (20070726/ED)

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=> s l5
L6

6 L5

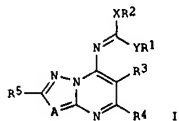
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L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2005:962261 CAPLUS
DOCUMENT NUMBER: 143:266948
TITLE: Preparation of azolopyrimidines as agrochemical fungicides.
INVENTOR(S): Schwoegler, Anja; Gewehr, Markus; Mueller, Bernd; Grote, Thomas; Grammenos, Wassilios; Tormo i Blasco, Jordi; Rheinheimer, Joachim; Blettner, Carsten; Schaefer, Peter; Schieweck, Frank; Wagner, Oliver; Stierl, Reinhard; Schoeffl, Ulrich; Strathmann, Siegfried; Scherer, Maria
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080396	A2	20050901	WO 2005-EP1965	20050224
WO 2005080396	A3	20051124		
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1720879	A2	20061115	EP 2005-715521	20050224
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
DE 2004-102004009178A 20040225				
WO 2005-EP1965 W 20050224				

PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 143:266948
GI



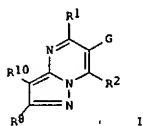
AB Title compds. [I: A = N, CR6; X, Y = bond, O, S, NR7; R1, R2 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, Ph, phenylalkyl, naphthyl, naphthylalkyl, (aromatic) heterocyclyl, heterocyclylalkyl, etc.; YR1, XR2 = H, cyano, NO2, halo, atoms to form (substituted) (heterocyclic) 5-7 membered rings, etc.; R3 = (substituted)

L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2002:391719 CAPLUS
DOCUMENT NUMBER: 136:401776
TITLE: Preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compounds such as pyrazolopyrimidines
INVENTOR(S): Kato, Fuminori; Kimura, Hirohiko; Omatsu, Masato; Yamamoto, Kazuhiro; Miyamoto, Ryuji
PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
SOURCE: PCT Int. Appl., 102 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040485	A1	20020523	WO 2001-JP10061	20011116
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NZ, OM, PG, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2002212076	A	20020731	JP 2001-346339	20011112
CA 2429067	A1	20020523	CA 2001-2429067	20011116
AU 200215223	A	20020527	AU 2002-15223	20011116
EP 1334973	A1	20030813	EP 2001-993816	20011116
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
IN 2003KN00552	A	20050311	IN 2003-KN552	20030430
US 2004043998	A1	20040304	US 2003-416164	20030515
US 7067520	B2	20060627		

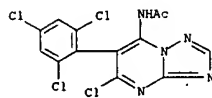
PRIORITY APPLN. INFO.: JP 2000-351764 A 20001117
WO 2001-JP10061 W 20011116
OTHER SOURCE(S): CASREACT 136:401776; MARPAT 136:401776
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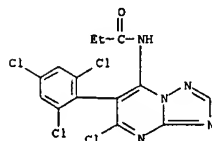
AB The title compds. I [G is CN, NO2, etc.; R1 is halogeno, etc.; R2 is halogeno, optionally substituted amino, etc.; and R8 and R10 are each independently hydrogen, halogeno, or alkyl] are prepared Processes for preparing I are disclosed. Compds. of this invention at 50 mg/kg orally gave

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

alkyl, alkenyl, alkadienyl, alkynyl, cycloalkyl, cycloalkenyl, bicycloalkyl, Ph, phenylalkyl, naphthyl, (arom.) heterocyclyl, heterocyclylalkyl, etc.; R4 = halo, cyano, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, etc.; R5 = H, cyano, NO2, NH2, CH2NH2, halo, haloalkyl, alkyl, alkenyl, etc.; were prepd. Thus, a -8' mixt. of POC13 and DMF was treated with 7-amino-5-chloro-6-(2,4,6-trifluorophenyl)triazolo[1,5-a]pyrimidine hydrochloride in DMF and Et3N to give 66% I (YR1 = NMe2; XR2, R5 = H; R3 = 2,4,6-trifluorophenyl; R4 = Cl). The latter at 250 ppm reduced incidence of Alternaria solani on tomatoes to 51%, vs. 100% for untreated controls.
IT 863604-57-3P 863604-58-4P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of azolopyrimidines as agrochem. fungicides)
RN 863604-57-3 CAPLUS
CN Acetamide, N-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9C1) (CA INDEX NAME)

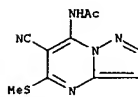


RN 863604-58-4 CAPLUS
CN Propanamide, N-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9C1) (CA INDEX NAME)



L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)

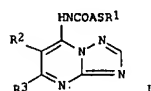
statistically significant decreases of blood sugar in diabetic mice.
IT 429694-71-3P
RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compds. or their salts)
RN 429694-71-3 CAPLUS
CN Acetamide, N-[6-cyano-5-(methylthio)pyrazolo[1,5-a]pyrimidin-7-yl]- (9C1) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 1997:465087 CAPLUS
 DOCUMENT NUMBER: 127:81462
 TITLE: Preparation of triazolopyrimidine derivatives as ACAT inhibitors
 INVENTOR(S): Sato, Masakazu; Mannaka, Akira; Takahashi, Keiko; Tomizawa, Kazuyuki
 PATENT ASSIGNEE(S): Taisho Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JIOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

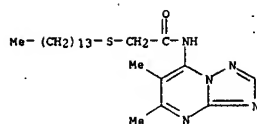
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09169763	A	19970630	JP 1995-333247	19951221
JP 3716472	B2	20051116		
PRIORITY APPLN. INFO:			JP 1995-333247	19951221
OTHER SOURCE(S):		MARPAT 127:81462		



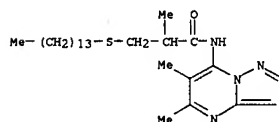
AB The title compds. (I; X = ASR1; A = C1-4 alkylene; R1 = C1-20 alkyl; R2 = H, C1-4 alkyl; R3 = Me, morpholino) are prepared, possessing Acyl-CoA Cholesterolacyltransferase (ACAT) inhibitory activity, are useful as lipid lowering agents and arteriosclerosis remedies. Thus, Me(CH2)13SH was treated with NaH and then reacted with I (X = Me2Br, R2 = Me, R3 = morpholino) (preparation given) to give the title compound I [X = Me25(CH2)13Me, R2 = Me, R3 = morpholino], which showed IC50 of 6.05 X 10⁻⁶ M against ACAT when tested with rabbits.
 IT 191655-89-7P 191655-90-0P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (Preparation of triazolopyrimidine derivs. as ACAT inhibitors)
 RN 191655-89-7 CAPLUS
 CN Propanamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-(tetradecylthio)- (9CI) (CA INDEX NAME)

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 1966:27540 CAPLUS
 DOCUMENT NUMBER: 64:27540
 ORIGINAL REFERENCE NO.: 64:5086g-h, 5087a-h, 5088a-d
 TITLE: Syntheses of pyrazole derivatives. XI. Acetylation products of 7-aminopyrazolo[1,5-a]pyrimidines.
 AUTHOR(S): Takamizawa, Akira; Hamashima, Yoshio
 CORPORATE SOURCE: Shionogi Co., Ltd., Osaka
 SOURCE: Chemical & Pharmaceutical Bulletin (1965), 13(10), 1207-20
 CODEN: CPBTAL; ISSN: 0009-2363
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB cf. CA 63, 5644b. The steric effect of substituents at C-6 of pyrazolopyrimidine ring on the NH2 group at C-7 was investigated. A mixture of 2 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine, 10 ml. Ac2O, and 20 ml. pyridine was heated at 105° for 5.5 hrs. to give 1.8 g. 7-acetamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 83-4°. The same reaction could be carried out with AcCl in pyridine. Similarly 500 mg. 2-methyl-5-phenyl-7-aminopyrazolo[1,5-a]pyrimidine gave 450 mg. 2-methyl-5-phenyl-7-acetamidopyrazolo[1,5-a]pyrimidine, m. 196-8°, and 5-phenyl-7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave 84.8% yield of 5-phenyl-7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 165-6°. On the other hand acetylation of 500 mg. 2-phenyl-7-amino-5,6-dimethylpyrazolo[1,5-a]pyrimidine with 5 ml. Ac2O and 15 ml. pyridine at 100° 3 hrs. gave 84.7% 2-phenyl-7-acetylaminopyrazolo[1,5-a]pyrimidine, m. 168-9°. Mild acetylation of 500 mg. 6-phenyl-7-amino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine at 100° for 12 hrs. gave 490 mg. 6-phenyl-7-acetamido-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 228-9°, which on reacylation at 115° for 6 hrs. gave 89.6% 6-phenyl-7-diacylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 105°. These results indicated that 7-amino group gave a diacetate when an alkyl or aryl group was present at C-6. Comps. with electroneg. COOEt and CN groups at C-6 were examined thus, acetylation of 1 g. ethyl 2-methyl-7-aminopyrazolo[1,5-a]pyrimidine-6-carboxylate (I) on acetylation with 10 ml. Ac2O and 20 ml. pyridine in a sealed tube at 110° for 15 hrs. gave 338 mg. ethyl 2-methyl-7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (II), m. 169-70°, and 102 mg. ethyl 2-methyl-7-diacylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 100-3°. The diacetate on Al2O3 in CHCl3 gave II, whereas the reacylation of II gave the diacetate. Similarly 1.5 g. ethyl 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate (III) gave 1.55 g. ethyl 7-diacylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 83-5°, which on chromatography over Al2O3 in EtOAc gave ethyl 7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (IV), m. 143-5°. Methylation of 500 mg. II with 500 mg. MeI in 10 ml. acetone in a sealed tube at 110° for 5 hrs. gave ethyl 7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (V), m. 143°. Similarly, 200 mg. IV gave 23 mg. ethyl 7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (VI), m. 176°. V and VI were also synthesized in another way. Methylation of 1.1 g. I with 0.71 g. MeI in 30 ml. acetone in a sealed tube at 100° for 6 hrs. gave the methiodide, m. 152° which was dissolved in H2O and neutralized with K2CO3 to give ethyl 7-amino-2,4-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 208°, which on acetylation at room temperature gave V identical with the above samples. Similarly, 2 g. III gave 1.42 g. hydriodide, m. 205°, which on neutralization gave ethyl

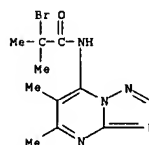
L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



RN 191655-90-0 CAPLUS
 CN Propanamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl-3-(tetradecylthio)- (9CI) (CA INDEX NAME)



IT 191655-98-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Preparation of triazolopyrimidine derivs. as ACAT inhibitors)
 RN 191655-98-8 CAPLUS
 CN Propanamide, 2-bromo-N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl- (9CI) (CA INDEX NAME)

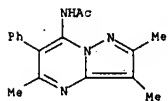


L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 7-imino-2,3,4-trimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (VII), m. 228°. Its acetylation gave VI. Hydrolysis of VI and VII with 20% HCl under reflux for 24 hrs. gave the known 2,3,4-trimethylpyrazolo[1,5-a]pyrimidine-7(4H)-one. Just as methylation, ethylation of 2.2 g. I gave 564 mg. ethyl 2-methyl-4-ethyl-7-imino-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 155-6°, and 2 g. III gave ethyl 4-ethyl-7-imino-2,3-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 181-2°. On the other hand acetylation of 500 mg. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile with 10 ml. pyridine and 5 ml. Ac2O at room temp. for 30 hrs. gave only the monoacetate, 7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile, m. 204-5°, which was also obtained by the acetylation at 110° for 8 hrs. An explanation was suggested to explain these results. Benzoylation was next tried. Treatment of 1 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine with 10 ml. pyridine and 1.86 g. BzCl at 110° for 1 hr. gave 1.2 g. 7-benzamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 138-9°. Similarly, 250 mg. 7-amino-3,6-dimethylpyrazolo[1,5-a]pyrimidine gave 200 mg. 7-benzamido-3,6-dimethylpyrazolo[1,5-a]pyrimidine, m. 187-8°. Similarly, other 7-acylamino compds. were prepd. Thus, a suspension of 5.7 g. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine and 5 g. K2CO3 in 40 ml. dimethylformamide was treated with ClCH2COCl and the mixt. heated on a steam bath for 6 hrs. to give 1.94 g. 7-(2-chloroacetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine (VIII), m. 175°. Replacement of ClCH2COCl by ClCH2CO2Et and carrying out the reaction in CHCl3 gave the same result. On the other hand, the reaction of 7-amino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (IX) with ClCH2COCl in CHCl3 did not proceed, but on refluxing 1 g. IX with 1 g. anhydride in CHCl3 for 5 hrs. gave 960 mg. 7-(2-chloroacetamido)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 152-3°. However when 1.76 g. IX was treated with 1.13 g. ClCH2COCl in 20 ml. dimethylformamide on a steam bath for 1 hr., the product (634 mg.) was 7-(dimethylaminomethylideneamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (X), m. 119°, whose structure was proved by its spectral data. When ClCH2COCl was replaced by AcCl, 1 g. IX gave X and 7-acetamido-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine. Reaction of 1.68 g. VIII with 1.27 g. MeNH in CHCl3 in a sealed tube at 105° for 6.5 hrs. gave 1.28 g. 7-(2-dimethylaminoacetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 168-70° which on reduct. with LiAlH4 in tetrahydrofuran gave 7-(2-dimethylaminoethylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 103-4°. As expected the reaction of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave ethyl 2,3-dimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 113°, with ClCO2Et; 7-(3,3-dimethylureido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 163° with ClCONMe2; 7-(piperidinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 126° with piperidinocarbonyl chloride; and 7-(morpholinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 208°. IX was less reactive and on treatment with ClCO2Et gave ethyl 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 133-5°. 7-Alkylamino compds. were synthesized. Hydrolysis of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine on hydrolysis gave 2,3-dimethylpyrazolo[1,5-a]pyrimidin-7(4H)-one, which (200 mg.) on refluxing with 10 ml. POCl3 for 3 hrs. gave 193 mg. 7-chloro-2,3-dimethylpyrazolo[1,5-a]pyrimidine (XI), m. 113°. Similarly, IX on hydrolysis gave 2,3,6-trimethylpyrazolo[1,5-a]pyrimidin-7(4H)-one, which with POCl3 gave 86% 7-chloro-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 122°. Similarly were prepd. 7-chloro-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine (XIII), m. 79°. A soln. of 615 mg. XI and 600 mg. NaOAc in 30 ml. MeOH was hydrogenated at room temp. in the presence of 500 mg. 5% Pd-C to absorb 76 ml. H within 5 min. to give 480 mg. 2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 54°, which on further

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
hydrogenation under the same conditions gave 76.2% 2,3-dimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 141-2°. Similarly 500 mg. XII gave 350 mg. 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 110° and 72.5% yield of 2,3,6-trimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 169-70° and 215 mg. XIII gave 156 mg. 2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 81°, hydrochloride, m. 179°. A mixt. of 300 mg. XI and excess of MeNH₂ in CHCl₃ was heated in a sealed tube at 150° for 8 hrs. to give 7-methylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 145-6° and was also obtained by hydrogenation of 7-formamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine. Similarly were prepd. 7-methylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 157°; 7-methylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 174°; 7-dimethylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 71°, hydrochloride, m. 240°; 7-dimethylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 69°, hydrochloride, m. 206°; 7-dimethylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 84°, hydrochloride, m. 250°; 2,3,5-trimethyl-7-piperidinopyrazolo[1,5-a]pyrimidine, m. 132°, hydrochloride, m. 205°; 7-(dimethylcarbamoylmethylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 185-6°, hydrochloride, m. 248° and 7-(dimethylcarbamoylmethylamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 177°. The uv, ir, and N.M.R. spectra of all the compds. were described.

IT 4385-22-2P, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-
RL: PREP (Preparation)
(preparation of)

RN 4385-22-2 CAPLUS
CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)- (8CI) (CA INDEX NAME)



L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1966:11534 CAPLUS
DOCUMENT NUMBER: 64:11534
ORIGINAL REFERENCE NO.: 64:2102f-g
TITLE: 7-Aminopyrazolo[1,5-a]pyrimidine derivatives
INVENTOR(S): Takamizawa, Akira; Hayashi, Sadao; Hamashima, Yoshio
PATENT ASSIGNEE(S): Shionogi & Co., Ltd.
SOURCE: 3 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

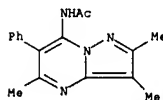
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 40018757	B4	19650823	JP	19630907

PRIORITY APPLN. INFO.: JP 19630907

GI For diagram(s), see printed CA Issue.
AB Manufacture of I, useful as analgesics and antiinflammatory agents, was described. Thus, a solution of 500 mg. 2,3-dimethyl-7-aminopyrazolo[1,5-a]pyrimidine in 10 ml. C₅H₅N is heated on a steam bath 3 hrs. with 5 ml. Ac₂O, the whole concentrated in vacuo, and the residue dissolved in H₂O, made alkaline, and extracted with AcOEt to give 480 mg. I (R₁ = R₂ = Me, R₃ = R₄ = H, R₅ = Ac), m. 135-6° (AcOEt). Similarly prepared are the following I (R₁, R₂, R₃, R₄, R₅, and m.p. given): H, Me, H, Me, Ac, Ac, 119-21°; H, Me, H, Me, H, Ac, 153°; Me, Me, H, Me, Ac, Ac, 137-8°; Me, Me, H, Me, H, Ac, 158-9°; Me, H, Ph, H, H, Ac, 196-8°; Me, Me, Ph, H, H, Ac, 165-6°; Me, Me, Me, Ph, H, Ac, 229-30°; Me, Me, Me, Ph, Ac, Ac, 105°.

IT 4385-22-2P, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-
RL: PREP (Preparation)
(preparation of)

RN 4385-22-2 CAPLUS
CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)- (8CI) (CA INDEX NAME)

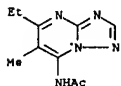


L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1964:3162 CAPLUS
DOCUMENT NUMBER: 60:3162
ORIGINAL REFERENCE NO.: 60:523e-g
TITLE: Condensed heterocycles. IV. Condensation of 3-amino-1,2,4-triazoles with diaceto- and dipropionitriles
AUTHOR(S): Levin, Ya. A.; Kukhtin, V. A.
CORPORATE SOURCE: Cine-Photo Res. Inst., Kazan
SOURCE: Zhurnal Obshchei Khimii (1963), 33(8), 2678-82
CODEN: ZOKHAA; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.
AB Heating 3-amino-5-substituted 1,2,4-triazoles with substituted 6-aminoacrylonitriles 30-40 min at 155-200° gave (Ia) (R, R', R'' & yield, and m.p. shown, resp.): H, Me, H (I), 84, 246-7° (picrate decomposed 212-14°); Pr, Me, H, 61, 180-1°; C₆H₁₃, Me, H, 56, 128-30°; H, Et, Me (II), 72, 262-3°; Pr, Et, Me, 51, 225-6°. I refluxed with Ac₂O in C₅H₅N gave the Ac derivative, m. 230°; similarly was prepared Ac derivative of II, m. 1402°, purified on Al₂O₃ in C₆H₆. I and tosyl chloride gave 75% p-toluenesulfonamido analog, decomposed 283-5° (λ 304 mμ). Treated with Br vapors at 60° in H₂O, I gave 88% 4-amino-5-bromo-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 2457° (λ 261 and 298 mμ). I and aqueous I-KI in the presence of K₂CO₃ at 70-80° gave 4-amino-6-methyl-5-iodo-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 233-5° (λ 260 and 300 mμ). 4-Chloro-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 412°, formed in 82% yield from the 4-oxo analog by refluxing in POCl₃ 3 hrs. Treated with NH₃ in EtOH at 0°, then heated 3 hrs. in an ampul at 100°, this gave 83% 4-amino-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 230-1°, which could not be prepared by the above condensation of aminotriazole with dipropionitrile even at 230°. I and concentrated HCl in 5 hrs. at 140° in a sealed tube gave 3-amino-1,2,4-triazole, isolated as the picrate, decomposed 228-30°. Ultraviolet spectra of Ia are shown.

IT 90973-30-1P, s-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl-
RL: PREP (Preparation)
(preparation of)

RN 90973-30-1 CAPLUS
CN s-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl- (7CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 17:34:14 ON 27 JUL 2007)

FILE 'REGISTRY' ENTERED AT 17:35:30 ON 27 JUL 2007

L1	STRUCTURE UPLOADED
L2	35 S L1
L3	STRUCTURE UPLOADED
L4	2 S L3
L5	8 S L3 FULL SSS

FILE 'CAPLUS' ENTERED AT 17:38:48 ON 27 JUL 2007

L6	6 S L5
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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
32.56	207.33

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 17:39:50 ON 27 JUL 2007